Summary of Water Conditions

April 1, 2018

For water supply, March was magnificent; a wet month brought much improvement over the dismal outlook at the end of February and boosted the snowpack from 15 percent to 60 percent.

Forecasts of median April through July runoff are expected to be 70 percent of average compared to last year's 175 percent at this time and the 40 percent one month ago. The water year forecast this year is now predicted to be about 70 percent, compared to an actual 220 percent in 2017.

Snowpack water content improved to about 60 percent of average for this April 1 date, normally the peak of the accumulation season. As measured, percentages are a little higher on the east side of the Sierra than the western side and lowest in the lower elevation Trinity basin. Last year the pack was 160 percent of average.

Precipitation from October through March was 70 percent of average statewide compared to 50 percent a month ago and 170 percent last year on April 1. The range is from around 85 percent in the northeast to 30 percent in the southeast Colorado Desert.

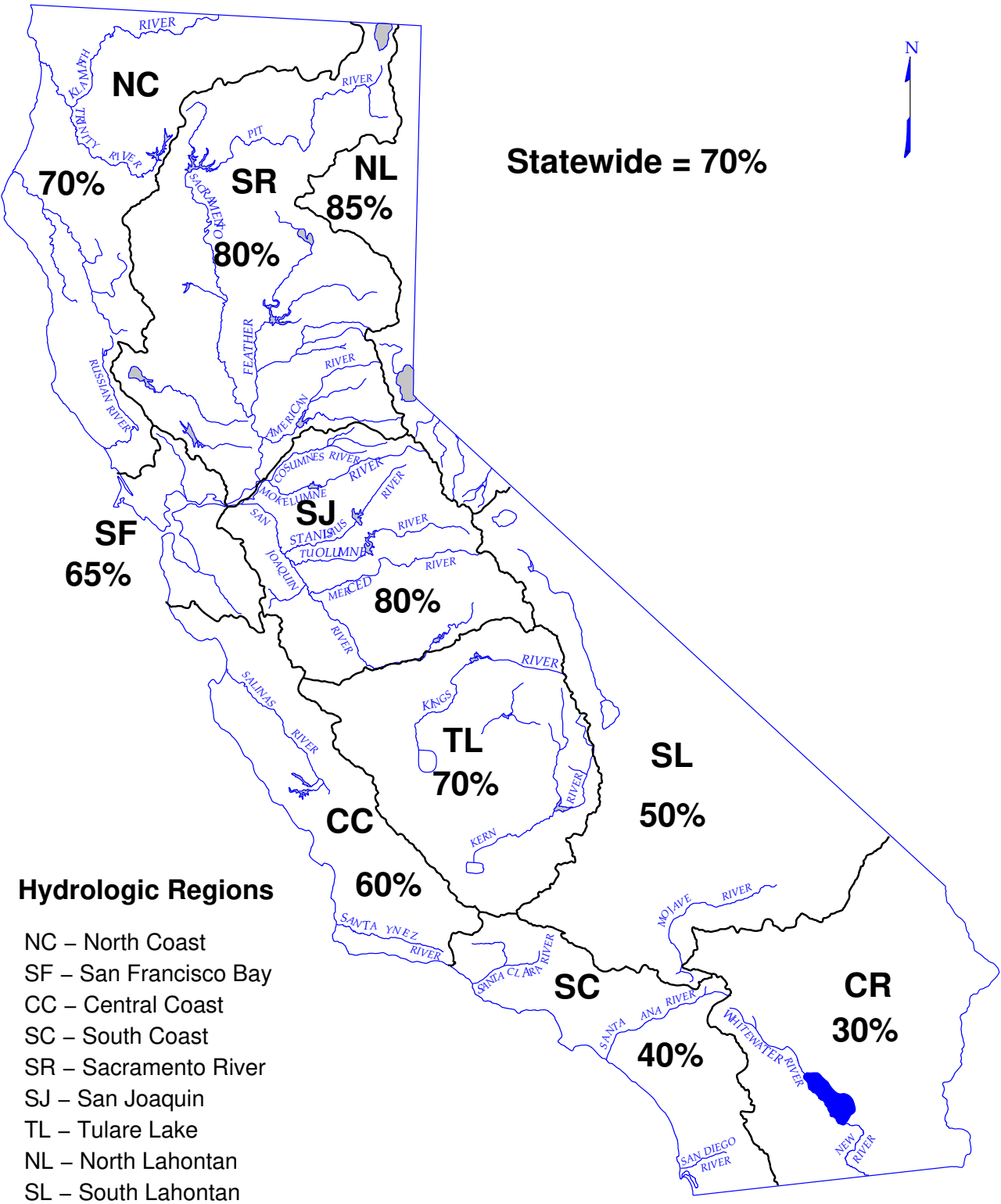
Runoff to date has been about 60 percent statewide with higher percentages from the high elevation eastern Sierra rivers, partly residual carryover from last year. Estimated March runoff was 95 percent of average with the highest percent, 150 percent, from the San Joaquin River region. Estimated runoff of the eight major rivers of the Sacramento-San Joaquin River region in March was 3.8 million acre-feet.

Reservoir storage is about 105 percent of average compared to 115 percent last year at this time.

SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	APRIL 1 SNOW WATER CONTENT	APRIL 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APRIL-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	70	35	95	45	40	40
SAN FRANCISCO BAY	65	--	85	25	--	--
CENTRAL COAST	60	--	65	40	--	--
SOUTH COAST	40	--	85	15	--	--
SACRAMENTO RIVER	80	55	105	65	70	70
SAN JOAQUIN RIVER	80	65	120	85	75	75
TULARE LAKE	70	55	115	65	60	60
NORTH LAHONTAN	85	70	175	120	80	90
SOUTH LAHONTAN	50	70	110	110	75	--
COLORADO RIVER	30	--	--	--	--	--
STATEWIDE	70	60	105	60	70	70

DEPARTMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
SEASONAL PRECIPITATION
IN PERCENT OF AVERAGE TO DATE
October 1, 2017 through March 31, 2018

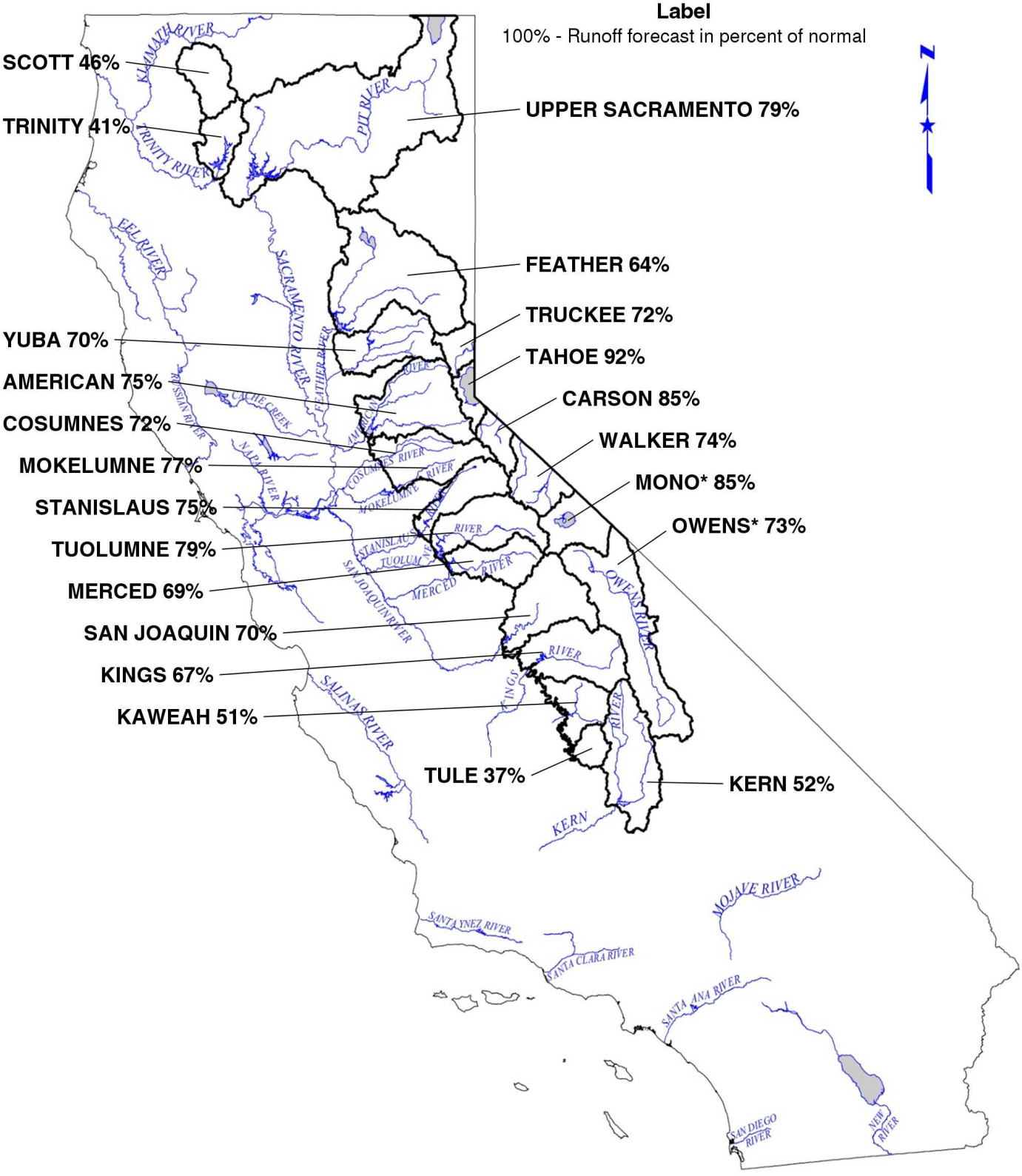


Hydrologic Regions

NC – North Coast
SF – San Francisco Bay
CC – Central Coast
SC – South Coast
SR – Sacramento River
SJ – San Joaquin
TL – Tulare Lake
NL – North Lahontan
SL – South Lahontan
CR – Colorado River–Desert

WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

DEPARMENT OF WATER RESOURCES
CALIFORNIA COOPERATIVE SNOW SURVEYS
FORECAST OF APRIL-JULY
UNIMPAIRED SNOWMELT RUNOFF
April 1, 2018



* FORECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

April 1, 2018 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF

HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL 50 Yr Avg (2)	Max of Record (10)	Min of Record (10)	FORECAST Apr-Jul Forecast	Pct of Avg	80% Probability Range (1)
North Coast						
Trinity River at Lewiston Lake	639	1,593	80	**260**	41%	200 - 340
SACRAMENTO RIVER						
Upper Sacramento River						
Sacramento River at Delta above Shasta Lake	295	751	39	145	49%	
McCloud River above Shasta Lake	385	850	185	320	83%	
Pit River near Montgomery Creek + Squaw Creek	1,020	2,098	480	880	86%	
Total Inflow to Shasta Lake	1,756	3,525	711	**1,380**	79%	1,120 - 1,620
Sacramento River above Bend Bridge, near Red Bluff	2,421	5,117	943	**1,750**	72%	1,420 - 2,140
Feather River						
Feather River at Lake Almanor near Prattville (3)	333	675	120	220	66%	
North Fork at Pulga (3)	1,028	2,416	243	660	64%	
Middle Fork near Clio (4)	86	518	4	55	64%	
South Fork at Ponderosa Dam (3)	110	267	13	65	59%	
Feather River at Oroville	1,704	4,676	378	**1,090**	64%	800 - 1,340
Yuba River						
North Yuba below Goodyears Bar	279	647	51	200	72%	
Inflow to Jackson Mdws and Bowman Reservoirs (3)	112	236	25	75	67%	
South Yuba at Langs Crossing (3)	233	481	57	160	69%	
Yuba River near Smartsville plus Deer Creek	968	2,424	151	**680**	70%	490 - 810
American River						
North Fork at North Fork Dam (3)	262	716	43	190	73%	
Middle Fork near Auburn (3)	522	1,406	100	390	75%	
Silver Creek below Camino Diversion Dam (3)	173	386	37	130	75%	
American River below Folsom Lake	1,199	3,074	185	**900**	75%	640 - 1,090
SAN JOAQUIN RIVER						
Cosumnes River at Michigan Bar	125	446	8	**90**	72%	55 - 130
Mokelumne River						
North Fork near West Point (5)	437	829	104	330	76%	
Total Inflow to Pardee Reservoir	457	1,076	75	**350**	77%	270 - 440
Stanislaus River						
Middle Fork below Beardsley Dam (3)	334	702	64	250	75%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	170	76%	
Stanislaus River below Goodwin Reservoir (9)	682	1,710	116	**510**	75%	410 - 640
Tuolumne River						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	250	79%	
Tuolumne River near Hetch Hetchy	604	1,392	153	470	78%	
Tuolumne River below La Grange Reservoir (9)	1,193	2,682	301	**940**	79%	770 - 1,120
Merced River						
Merced River at Pohono Bridge	372	888	80	260	70%	
Merced River below Merced Falls (9)	623	1,588	104	**430**	69%	340 - 510
San Joaquin River						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	720	70%	
Big Creek below Huntington Lake (8)	91	264	11	65	71%	
South Fork near Florence Lake (7)	201	511	58	140	70%	
San Joaquin River inflow to Millerton Lake	1,228	3,355	193	**860**	70%	730 - 1,040
TULARE LAKE						
Kings River						
North Fork Kings River near Cliff Camp (3)	239	565	50	160	67%	
Kings River below Pine Flat Reservoir	1,210	3,113	208	**810**	67%	650 - 970
Kaweah River below Terminus Reservoir	285	814	42	**145**	51%	110 - 180
Tule River below Lake Success	63	259	1	**23**	37%	14 - 30
Kern River						
Kern River near Kernville	384	1,203	83	200	52%	
Kern River inflow to Lake Isabella	458	1,657	57	**240**	52%	190 - 290

(1) See inside the back cover for definition.
(2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
(3) 50 year average based on years 1941-90.
(4) 44 year average based on years 1936-79.
(5) 36 year average based on years 1936-72.
(6) 45 year average based on years 1936-81.
(7) 50 year average based on years 1953-2002.
(8) 50 year average based on years 1946-1995.

April 1, 2018 FORECASTS
WATER YEAR UNIMPAIRED RUNOFF

Water Year Unimpaired Runoff in 1,000 Acre-Feet (1)

HISTORICAL			DISTRIBUTION									FORECAST			
50 Yr Avg (2)	Max of Record (10)	Min of Record (10)	Oct Thru Jan	Feb *	Mar *	Apr	May	Jun	Jul	Aug	Sep	Water Year Forecast	Pct of Avg	80% Probability Range (1)	
1,348	2,990	200	135	43	91	110	105	38	7	1	0	**530**	39%	465 -	615
860	1,966	165	105	27	75	68	45	20	12	7	7	365	42%	- -	-
1,183	2,353	557	326	69	149	105	89	68	58	55	51	970	82%	- -	-
3,002	5,150	1,484	716	183	273	295	245	185	155	140	138	2,330	78%	- -	-
5,831	10,796	2,479	1,156	254	636	505	400	265	210	192	187	**3,805**	65%	3,470 -	4,115
8,544	17,180	3,294	1,582	325	848	645	495	345	265	233	232	**4,970**	58%	4,550 -	5,465
780	1,269	366													
2,417	4,400	666													
219	637	24													
291	562	32													
4,407	10,178	995	843	181	867	450	375	165	100	78	67	**3,125**	71%	2,795 -	3,410
564	1,056	102													
181	292	30													
379	565	98													
2,268	5,604	369	488	88	514	285	275	95	25	14	12	**1,795**	79%	1,595 -	1,935
616	1,234	66													
1,070	2,575	144													
318	705	59													
2,626	7,391	349	502	98	661	370	355	150	25	8	6	**2,175**	83%	1,910 -	2,370
379	1,253	20	43	9	142	48	30	10	2	1	0	**285**	75%	245 -	330
626	1,009	197													
748	1,901	129	106	18	127	110	160	71	9	2	2	**605**	81%	520 -	700
471	929	88													
-	-	-													
1,149	3,078	155	154	29	197	170	215	104	21	6	4	**900**	78%	795 -	1,040
461	1,147	123													
770	1,661	258													
1,909	4,631	383	229	34	357	250	375	265	50	13	6	**1,580**	83%	1,405 -	1,770
461	1,020	92													
992	2,787	150	73	16	185	125	187	95	23	4	2	**710**	72%	615 -	800
1,337	2,964	308													
112	298	14													
248	653	71													
1,793	4,642	327	130	27	211	200	345	235	80	25	12	**1,265**	71%	1,125 -	1,460
284	607	58													
1,702	4,287	359	116	23	164	180	345	220	65	20	11	**1,145**	67%	970 -	1,320
451	1,402	89	28	7	46	45	65	30	5	2	2	**230**	51%	190 -	270
147	615	10	13	3	21	11	9	2	1	0	0	**59**	40%	50 -	70
558	1,577	163													
728	2,318	130	103	18	48	60	85	70	25	15	11	**435**	60%	375 -	500

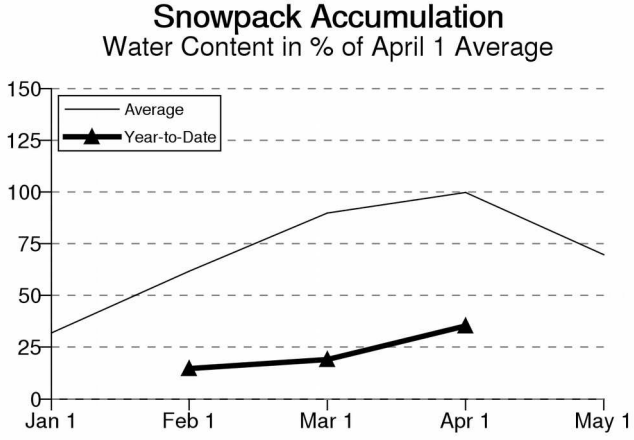
(9) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.
(10) For the tributaries, the period of record over which the minimum and maximum values are found does not include years after water year 2011.
* Unimpaired runoff in months prior to forecast date are based on measured flows.

April 1, 2018 FORECASTS
APRIL-JULY UNIMPAIRED RUNOFF

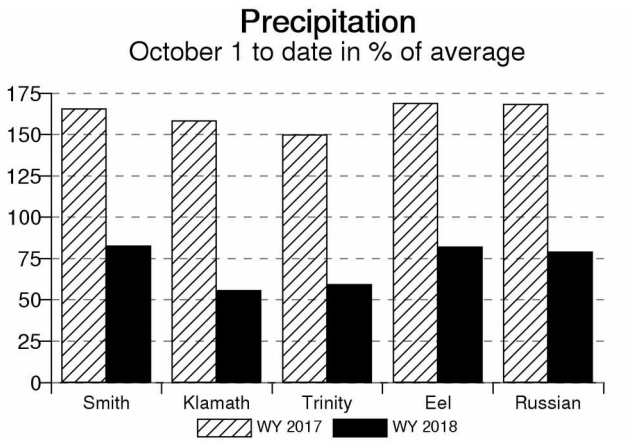
HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL			FORECAST	
	50 Yr Avg (2)	Max of Record (6)	Min of Record (6)	Apr-Jul Forecast	Pct of Avg
NORTH COAST					
Scott River					
Scott River nr Ft Jones (3)	173	398	22	**80**	46%
Klamath River					
Total inflow to Upper Klamath Lake (4)	475	1,150	149	**238**	50%
NORTH LAHONTAN					
Truckee River					
Lake Tahoe to Farad accretions	250	713	48	**180**	72%
Lake Tahoe Rise (assuming gates closed, ft)	1.3	5.4	0.2	**1.2**	90%
Carson River					
West Fork Carson River at Woodfords	52	135	10	**48**	92%
East Fork Carson River near Gardnerville	182	480	43	**155**	85%
Walker River					
West Walker River below Little Walker, near Coleville	153	410	35	**115**	75%
East Walker River near Bridgeport	61	209	7	**43**	70%
SOUTH LAHONTAN					
Owens River					
Total tributary flow to Owens River (5)	231	579	84	**170**	73%

(1) See inside the back cover for definition.
(2) All 50 year averages are based on years 1966-2015 unless otherwise noted.
(3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1981-2010).
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1981-2010.
(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1961-2010.
(6) For the tributaries, the period of record over which the minimum values are found does not include years after water year 2011.

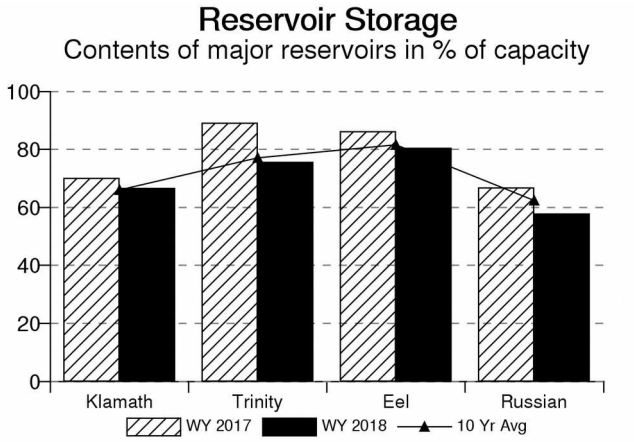
NORTH COAST REGION



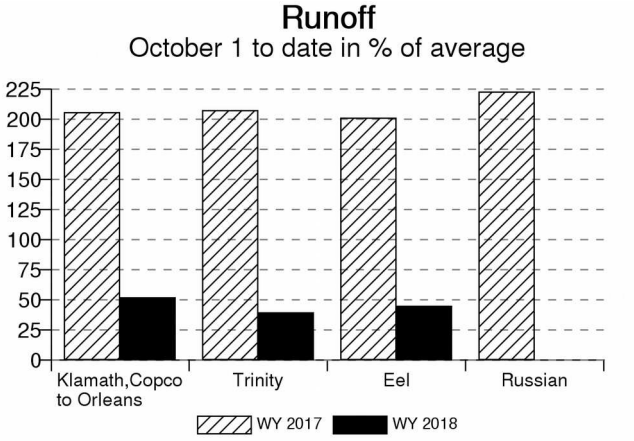
SNOWPACK First of the month measurements made at 18 snow courses indicate an area wide snow water equivalent of 9.9 inches. This is 35 percent of the seasonal April 1 average and 35 percent of the April 1 average. Last year this time the pack was 29.9 inches of water.



PRECIPITATION Seasonal precipitation (October 1 through to the end of March) on this area was 70 percent of normal. Precipitation last month was about 125 percent of the monthly average. Season precipitation at this time last year stood at 160 percent of normal.

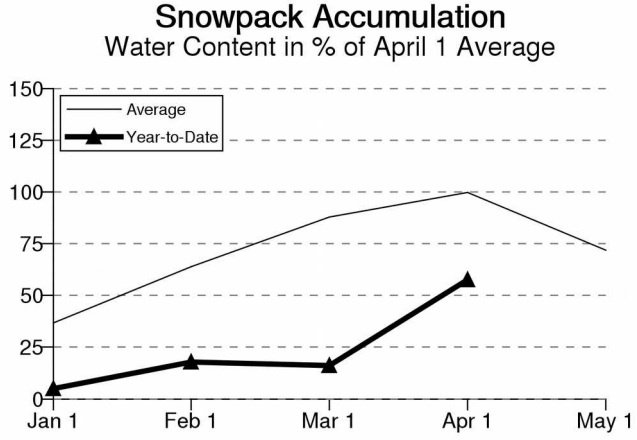


RESERVOIR STORAGE First of the month storage at 6 reservoirs was 2.23 million acre-feet which is 95 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 115 percent of average.

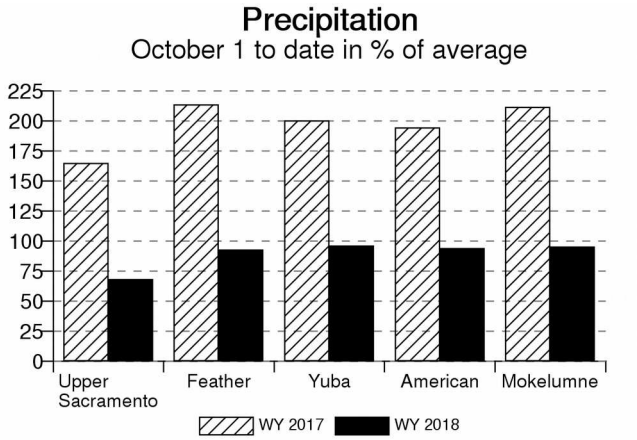


RUNOFF Seasonal runoff of streams draining this area totaled 4 million acre-feet which is 45 percent of average. Last year, runoff for the same period was 200 percent of average.

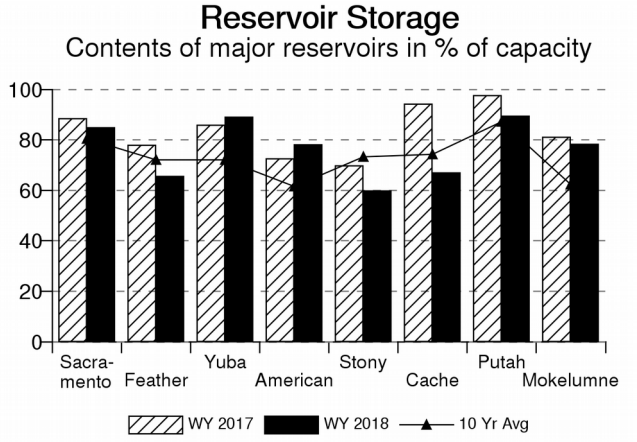
SACRAMENTO RIVER REGION



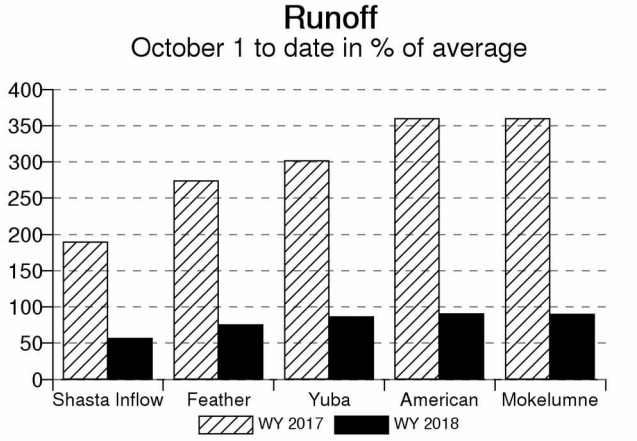
SNOWPACK First of the month measurements made at 79 snow courses indicate an area wide snow water equivalent of 15.3 inches. This is 55 percent of the seasonal April 1 average and 55 percent of the April 1 average. Last year this time the pack was holding 40.9 inches of water.



PRECIPITATION Seasonal precipitation (October 1 through to the end of March) on this area was 80 percent of normal. Precipitation last month was about 190 percent of the monthly average. Season precipitation at this time last year stood at 185 percent of normal.



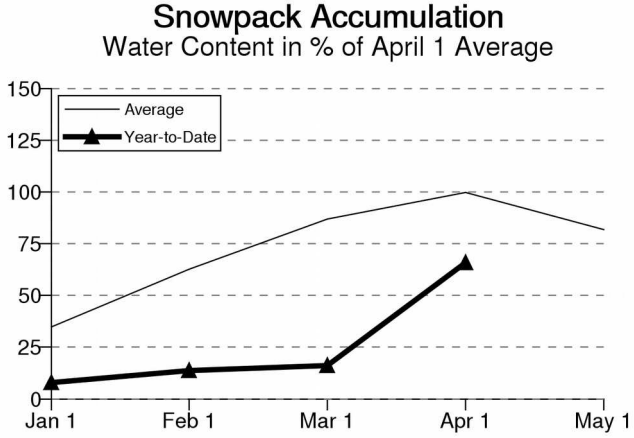
RESERVOIR STORAGE First of the month storage at 43 reservoirs was 12.51 million acre-feet which is 105 percent of average. About 75 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.



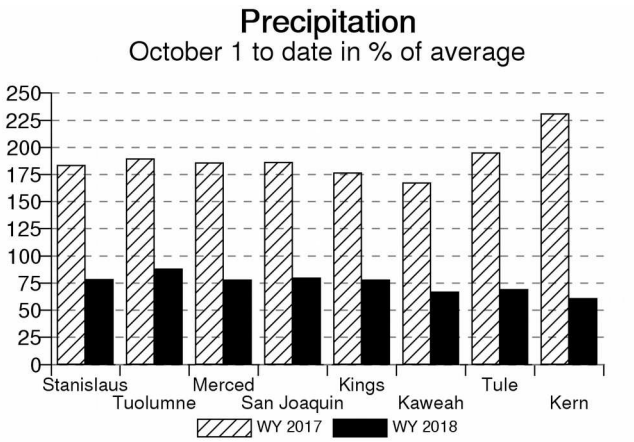
RUNOFF Seasonal runoff of streams draining this area totaled 7.00 million acre-feet which is 65 percent of average. Last year, runoff for the same period was 245 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 6.9 assuming median meteorological conditions for the remainder of the year. This classifies the year as "below normal" in the Sacramento Valley according to the State Water Resources Control Board.

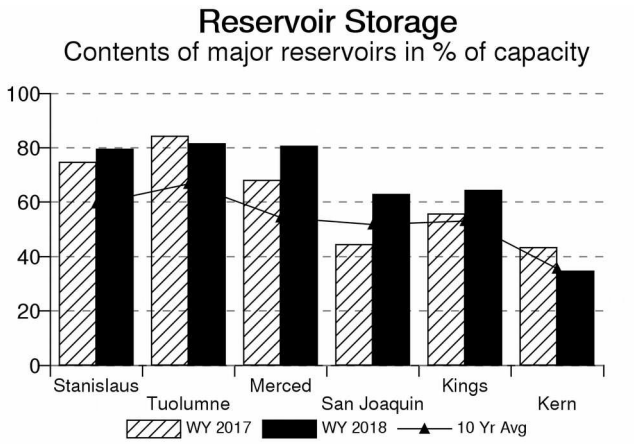
SAN JOAQUIN RIVER AND TULARE LAKE REGIONS



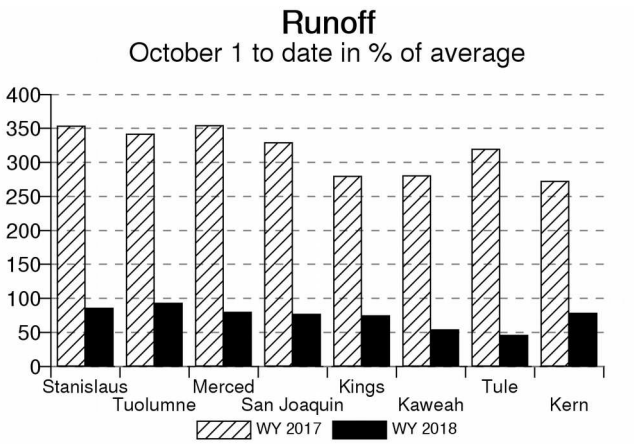
SNOWPACK- First of the month measurements made at 71 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 20.7 inches. This is 65 percent of the seasonal April 1 average and 65 percent of the April 1 average. Last year this time the pack was holding 54.9 inches of water. At the same time 41 **Tulare Lake** snow courses indicate a basin-wide snow water equivalent of less than 13.9 inches. This is 55 percent of the seasonal April 1 average and 55 percent of the April 1 average. Last year this time the pack was holding 45.7 inches of water.



PRECIPITATION- Seasonal precipitation (October 1 through to the end of March) on the **San Joaquin Region** was 80 percent of normal. Precipitation last month was about 230 percent of the monthly average. Season precipitation at this time last year stood at 190 percent of normal. Seasonal precipitation (October 1 through to the end of March) on the **Tulare Lake Region** was 70 percent of normal. Precipitation last month was about 240 percent of the monthly average. Season precipitation at this time last year stood at 185 percent of normal.



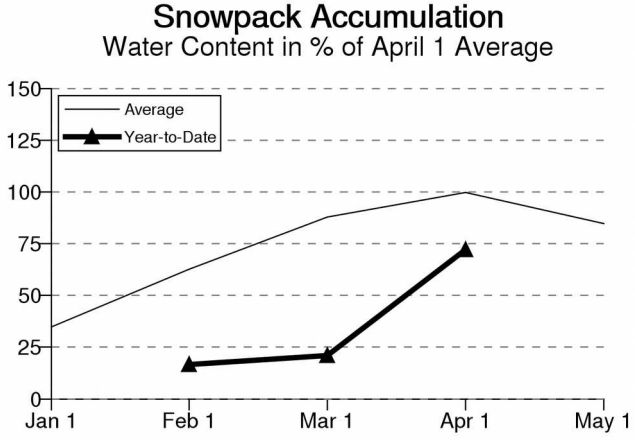
RESERVOIR STORAGE- First of the month storage in 34 **San Joaquin Region** reservoirs was 9.08 million acre-feet which is 120 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 120 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 1.07 million acre-feet which is 115 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.



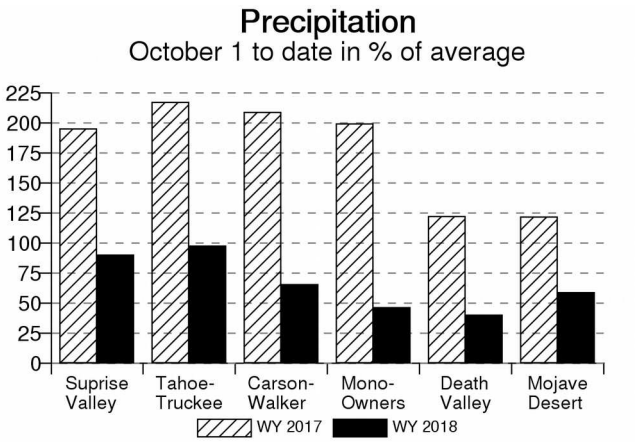
RUNOFF- Seasonal runoff of streams draining the **San Joaquin Region** totaled 2.09 million acre-feet which is 85 percent of average. Last year, runoff for the same period was 350 percent of average. Seasonal runoff of streams draining the **Tulare Lake Region** area totaled 589 thousand acre-feet which is 65 percent of average. Last year, runoff for the same period was 280 percent of average.

The **San Joaquin Region 60-20-20 Water Supply Index** is forecast to be 2.7 assuming 75 percent of median meteorological conditions. This classifies the year as "Below Normal" in the San Joaquin according to the State Water Resources Control Board.

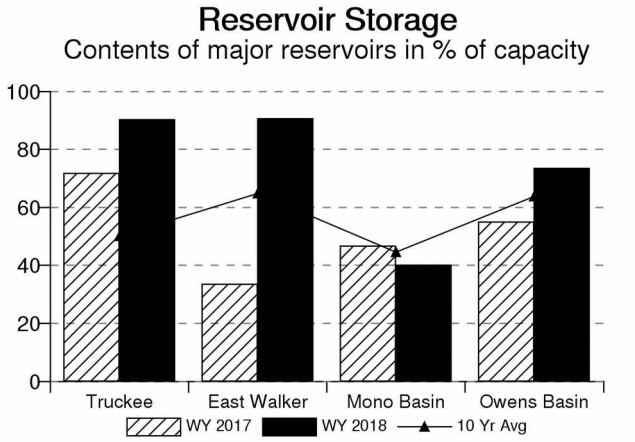
NORTH AND SOUTH LAHONTAN REGIONS



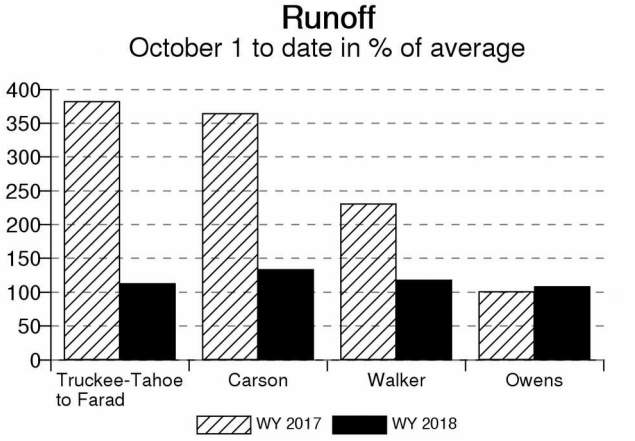
SNOWPACK First of the month measurements made at 17 **North Lahontan Region** snow courses indicate an area wide snow water equivalent of 18.7 inches. This is 70 percent of the seasonal April 1 average and 70 percent of the April 1 average. Last year this time the pack was holding 48.1inches of water. At the same time 19 **South Lahontan Region** snow courses indicate a basin-wide snow water equivalent of 15 inches. This is 70 percent of the seasonal April 1 average and 70 percent of the April 1 average. Last year this time the pack was holding less than 43.1 inches of water.



PRECIPITATION Seasonal precipitation (October 1 through to the end of March) on the **North Lahontan Region** was 85 percent of normal. Precipitation last month was about 185 percent of the monthly average. Season precipitation at this time last year stood at 210 percent of normal. Seasonal precipitation (October 1 through to the end of March) on the **South Lahontan Region** was 50 percent of normal. Precipitation last month was about 125 percent of the monthly average. Season precipitation at this time last year stood at 140 percent of normal.

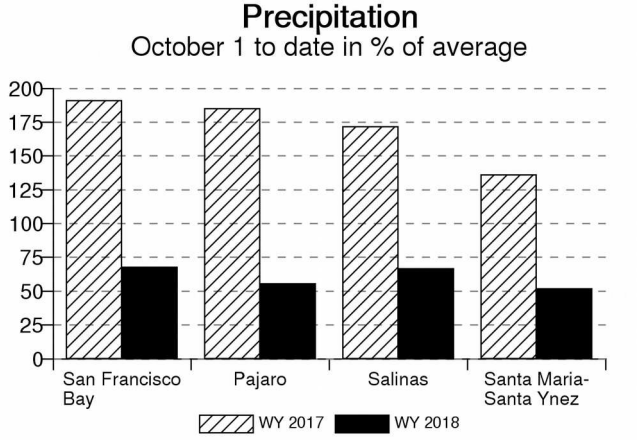


RESERVOIR STORAGE First of the month storage in 5 **North Lahontan Region** reservoirs was 969 thousand acre-feet which is 175 percent of average. About 90 percent of available capacity was being used. Storage in these reservoirs at this time last year was 140 percent of average. First of the month storage in 8 **South Lahontan Region** reservoirs was 287 thousand acre-feet which is 110 percent of average. About 70 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 percent of average.

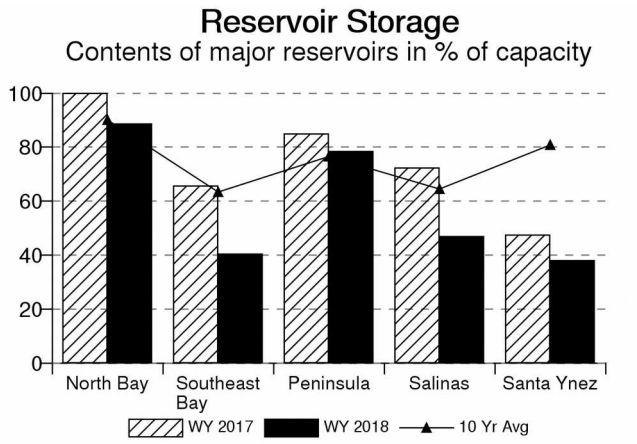


RUNOFF Seasonal runoff of streams draining the **North Lahontan Region** totaled 336 thousand acre-feet which is 120 percent of average. Last year, runoff for the same period was 345 percent of average. Seasonal runoff of streams draining the **South Lahontan Region** area totaled 71 thousand acre-feet which is 110 percent of average. Last year, runoff for the same period was 100 percent of average.

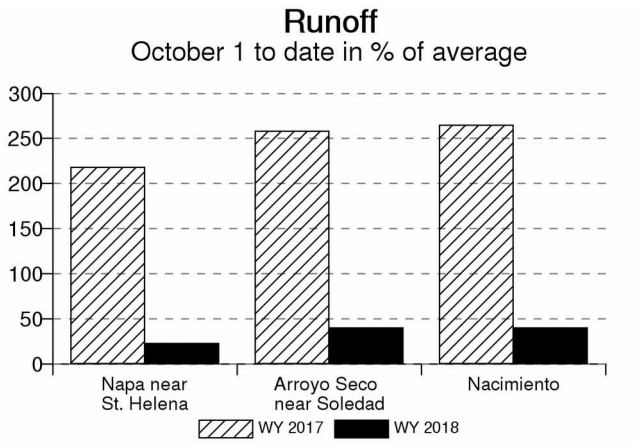
SAN FRANCISCO BAY AND CENTRAL COAST REGIONS



PRECIPITATION Seasonal precipitation (October 1 through to the end of March) on the **San Francisco Bay Region** was 65 percent of normal. Precipitation last month was about 150 percent of the monthly average. Season precipitation at this time last year stood at 190 percent of normal. Seasonal precipitation (October 1 through to the end of March) on the **Central Coast Region** was 60 percent of normal. Precipitation last month was about 180 percent of the monthly average. Season precipitation at this time last year stood at 170 percent of normal.



RESERVOIR STORAGE First of the month storage in 17 **San Francisco Region** 43 reservoirs was 441 thousand acre-feet which is 85 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average. First of the month storage in 4 **Central Coast Region** reservoirs was 425 thousand acre-feet which is 65 percent of average. About 45 percent of available capacity was being used. Storage in these reservoirs at this time last year was 95 percent of average.



RUNOFF Seasonal runoff of streams draining the **San Francisco Region** totaled 15 thousand acre-feet million acre-feet which is 25 percent of average. Last year, runoff for the same period was 220 percent of average. Seasonal runoff of streams draining the **Central Coast Region** area totaled 110 thousand acre-feet million acre-feet which is 40 percent of average. Last year, runoff for the same period was 260 percent of average.

SOUTH COAST AND COLORADO RIVER REGIONS

PRECIPITATION - October through March (seasonal) precipitation on the **South Coast Region** is 40 percent of normal. March precipitation was 105 percent of the monthly average. Seasonal precipitation at this time last year was 145 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** is 30 percent of normal. March precipitation was 30 percent of the monthly average. Seasonal precipitation at this time last year stood at 150 percent of average.

RESERVOIR STORAGE – March 31 storage in 29 major **South Coast Region** reservoirs is 1,245 thousand acre-feet or 85 percent of average. About 60 percent of available capacity is being used. Storage in these reservoirs at this time last year was 95 percent of average.
On March 31 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 26.2 million acre-feet or about 70 percent of average. About 50 percent of available capacity was in use. Last year at this time, these reservoirs were storing 65 percent of average.

RUNOFF - Seasonal runoff from selected **South Coast Region** streams totaled 111 thousand acre-feet which is 85 percent of average. Seasonal runoff from these streams last year was 20 percent of average.

COLORADO RIVER - The April -July inflow to Lake Powell is forecast to be 3.1 million acre-feet, which is 43 percent of average. The April 1 snowpack in the Colorado River basin above Lake Powell is 75 percent, highest in the Upper Green at 120 percent and lowest in the Colorado River Plateaus at 28 percent.

MAJOR WATER DISTRIBUTION PROJECTS
RESERVOIR STORAGE
(AVERAGES BASED ON 1966-2015 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	STORAGE AT END OF March 2017 1,000 AF	2018 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
STATE WATER PROJECT						
Lake Oroville	3,538	2,670	2,681	2,093	78%	59%
San Luis Reservoir (SWP)	1,062	958	1,052	898	94%	85%
Lake Del Valle	77	37	39	33	89%	43%
Lake Silverwood	78	68	68	67	99%	85%
Pyramid Lake	180	165	166	164	99%	91%
Castaic Lake	325	286	300	291	102%	90%
Perris Lake	131	106	58	87	82%	66%
CENTRAL VALLEY PROJECT						
Trinity Lake	2,448	1,888	2,177	1,844	98%	75%
Lake Shasta	4,552	3,657	4,031	3,880	106%	85%
Whiskeytown Lake	241	213	221	207	97%	86%
Folsom Lake	977	633	591	817	129%	84%
New Melones Reservoir	2,400	1,495	1,812	2,019	135%	84%
Millerton Lake	521	362	201	406	112%	78%
San Luis Reservoir (CVP)	971	847	963	876	103%	90%
COLORADO RIVER PROJECT						
Lake Mead	26,159	19,077	10,707	10,964	57%	42%
Lake Powell	24,322	16,720	11,364	12,956	77%	53%
Lake Mohave	1,810	1,676	1,718	1,687	101%	93%
Lake Havasu	648	559	577	570	102%	88%
EAST BAY MUNICIPAL UTILITY DISTRICT						
Pardee Res	204	183	192	202	110%	99%
Camanche Reservoir	417	259	303	336	130%	81%
East Bay (4 res.)	159	133	135	132	100%	83%
CITY AND COUNTY OF SAN FRANCISCO						
Hetch-Hetchy Reservoir	360	163	285	288	176%	80%
Cherry Lake	268	158	221	118	75%	44%
Lake Eleanor	29	14	24	13	100%	47%
South Bay/Peninsula (4 res.)	238	173	157	134	77%	56%
CITY OF LOS ANGELES (D.W.P.)						
Lake Crowley	183	128	111	147	115%	80%
Grant Lake	48	28	31	19	69%	40%
Other Aqueduct Storage (6 res.)	238	173	157	134	77%	56%

TELEMETERED SNOW WATER EQUIVALENTS

April 1, 2018

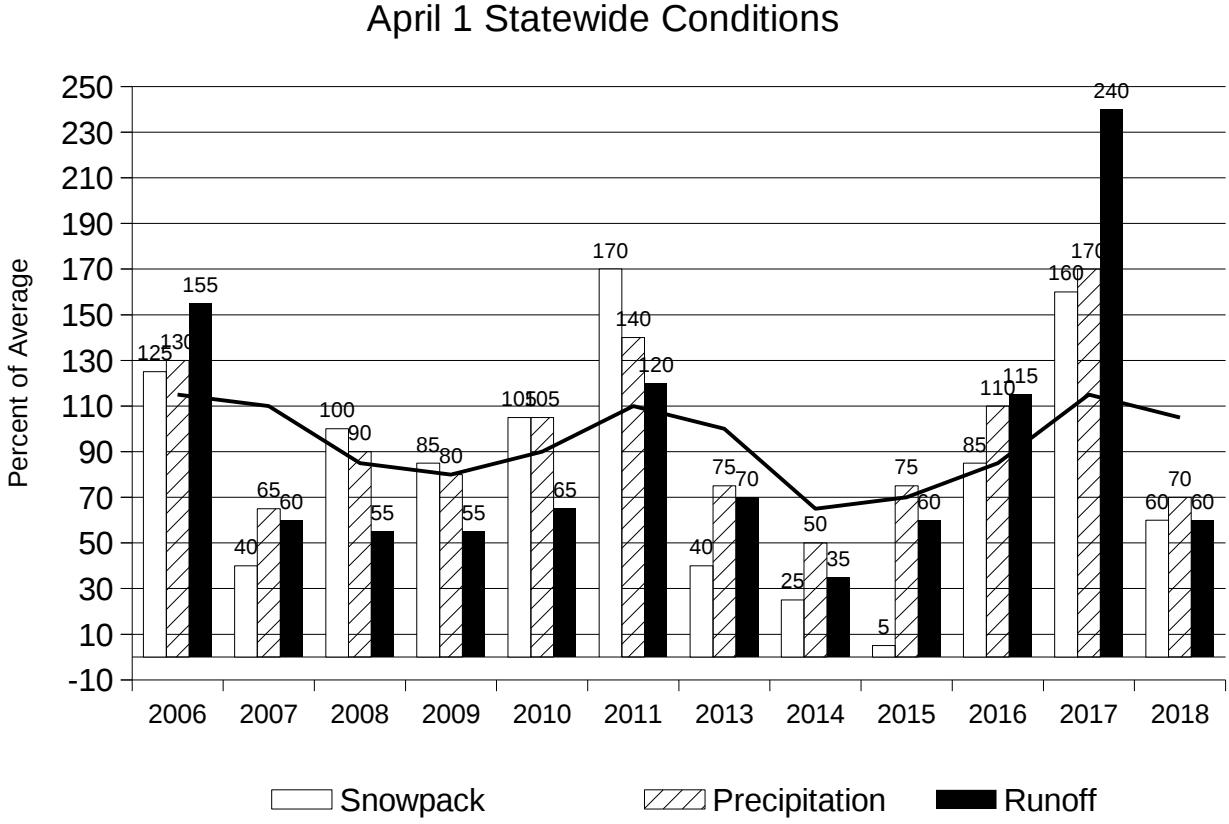
(AVERAGES BASED ON PERIOD RECORD)

BASIN NAME / STATION NAME	ELEV	APRIL 1 AVERAGE	INCHES OF WATER EQUIVALENT Apr 1	PERCENT OF AVERAGE	24 HRS PREVIOUS	1 WEEK PREVIOUS
TRINITY RIVER						
Shimmy Lake	6400'	40.3	7.7	19.1	8.0	9.5
Crowder Flat	5100'	-	0.0	-	0.0	0.3
Highland Lakes	6030'	29.9	5.2	17.3	5.5	6.4
Mumbo Basin	5650'	22.4	2.9	12.9	2.9	2.6
Bonanza King	6450'	40.5	-	-	-	-
Red Rock Mountain	6700'	39.6	18.3	46.2	18.9	20.7
Big Flat	5100'	15.8	6.1	38.7	6.4	6.5
Scott Mountain	5900'	16.0	1.4	9.0	1.8	1.8
Peterson Flat	7150'	29.2	6.7	23.1	7.2	7.5
Middle Boulder 3	6200'	28.3	5.6	19.9	6.1	6.7
SACRAMENTO RIVER						
Blacks Mountain	7050'	12.7	8.2	64.3	8.4	8.5
Cedar Pass	7100'	18.1	11.0	60.8	11.4	11.7
Medicine Lake	6700'	32.6	17.2	52.6	17.5	16.0
Sand Flat	6750'	42.4	-	-	-	-
Slate Creek	5700'	29.0	3.8	13.2	4.6	5.5
Adin Mountain	6200'	13.6	6.0	44.1	6.4	7.2
Stouts Meadow	5400'	36.0	11.4	31.7	12.1	13.1
Snow Mountain	5950'	27.0	15.5	57.3	16.0	16.0
FEATHER RIVER						
Kettle Rock	7300'	25.5	15.7	61.7	16.2	16.1
Gold Lake	6750'	36.5	19.1	52.3	19.1	18.1
Bucks Lake	5750'	44.7	17.2	38.4	17.6	18.2
Harkness Flat	6200'	28.5	8.1	28.5	8.7	10.4
Four Trees	5150'	20.0	6.7	33.6	7.7	10.7
Humbug	6500'	28.0	15.6	55.7	15.6	15.1
Grizzly Ridge	6900'	29.7	14.0	47.3	14.4	13.9
Rattlesnake	6100'	14.0	6.1	43.7	6.8	8.4
Lower Lassen Peak	8250'	-	53.4	-	52.7	45.9
Pilot Peak	6800'	52.6	15.1	28.6	15.5	16.7
EEL RIVER						
Noel Spring	5100'	-	0.0	-	0.0	0.3
YUBA & AMERICAN RIVERS						
Carson Pass	8353'	-	27.2	-	27.4	27.4
Lake Lois	8600'	39.5	-	-	-	-
Forni Ridge	7600'	37.0	17.4	47.1	17.7	18.4
Silver Lake	7100'	22.7	12.8	56.4	13.0	13.6
Blue Canyon	5280'	9.0	8.5	94.7	9.1	12.1
Schneiders	8750'	34.5	36.2	105.0	36.3	40.9
Meadow Lake	7200'	55.5	-	-	-	-
Robbs Powerhouse	5150'	5.2	7.8	149.0	8.3	10.6
Robinson Cow Camp	6480'	-	16.9	-	17.4	18.8
Cent Sierra Snow Lab	6900'	33.6	20.0	59.5	20.3	20.9
Caples Lake	8000'	30.9	15.8	51.3	16.1	15.4
Alpha	7600'	35.9	15.9	44.3	16.3	17.1
Robbs Saddle	5900'	21.4	10.0	46.5	10.4	11.6
Huysink	6600'	42.6	15.6	36.6	15.8	16.0
Van Vleck	6700'	35.9	19.3	53.8	19.8	21.7
Greek Store	5600'	21.0	16.1	76.6	16.6	17.4
MOKELUMNE & STANISLAUS RIVERS						
Highland Meadow	8700'	47.9	38.0	79.2	38.2	36.0
Gianelli Meadow	8400'	55.5	25.2	45.4	25.0	22.7
Bloods Creek	7200'	35.5	12.6	35.6	12.9	12.8
Blue Lakes	8000'	33.1	20.5	61.8	20.6	19.9
Mud Lake	7900'	44.9	-	-	-	-
Black Springs	6500'	32.0	13.9	43.5	14.3	15.1
Stanislaus Meadow	7750'	47.5	24.9	52.5	25.1	24.2
Deadman Creek	9250'	37.2	-	-	-	-
Lower Relief Valley	8100'	41.2	23.5	57.0	23.6	24.6
TUOLUMNE & MERCED RIVERS						
Dana Meadows	9800'	27.7	18.1	65.4	18.2	18.4
Horse Meadow	8400'	48.6	45.7	94.1	46.2	47.9
Tuolumne Meadows	8600'	22.6	12.0	53.1	12.2	11.7
Slide Canyon	9200'	41.1	31.4	76.5	31.5	31.9
Ostrander Lake	8200'	34.8	20.9	60.1	21.0	20.8
Gin Flat	7050'	34.2	13.9	40.7	14.5	15.4
Tenaya Lake	8150'	33.1	20.8	62.8	20.9	21.7
White Wolf	7900'	-	19.7	-	20.0	20.8
Lower Kibbie Ridge	6700'	27.4	9.2	33.4	9.6	11.1
Paradise Meadow	7650'	41.3	25.1	60.7	25.3	26.2

SAN JOAQUIN RIVER						
Volcanic Knob	10050'	30.1	22.7	75.3	22.8	23.3
Tamarack Summit	7550'	30.5	10.0	32.7	10.4	12.8
Kaiser Point	9200'	37.8	24.6	65.1	24.4	22.3
Huntington Lake	7000'	20.1	11.5	57.3	11.8	12.4
Green Mountain	7900'	30.8	13.6	44.0	14.2	15.8
Poison Ridge	6900'	28.9	7.6	26.2	8.3	11.0
Graveyard Meadow	6900'	18.8	7.6	40.2	8.2	9.6
Agnew Pass	9450'	32.3	27.7	85.9	28.2	29.9
Devils Postpile	7569'	-	7.6	-	8.2	9.7
Chilkoot Meadow	7150'	38.0	12.4	32.5	12.8	13.3
KINGS RIVER						
Bishop Pass	11200'	34.0	11.6	34.1	11.6	11.4
Blackcap Basin	10300'	34.3	-	-	-	-
Mitchell Meadow	9900'	32.9	24.5	74.5	25.0	27.1
Upper Burnt Corral	9700'	34.6	22.3	64.5	22.8	23.4
State Lakes	10300'	29.0	-	-	-	-
West Woodchuck Meadow	9100'	32.8	19.5	59.5	20.0	20.6
Big Meadows	7600'	25.9	-	-	-	-
Charlotte Lake	10400'	27.5	-	-	-	-
KAWEAH & TULE RIVERS						
Farewell Gap	9500'	34.5	-	-	-	-
Giant Forest	6650'	10.0	3.0	30.0	3.9	5.8
Quaking Aspen	7200'	21.0	6.9	32.8	7.6	9.8
KERN RIVER						
Tunnel Guard Station	8900'	15.6	-	-	-	-
Beach Meadows	7650'	11.0	0.0	0.0	0.1	1.3
Upper Tyndall Creek	11400'	27.7	11.2	40.6	11.2	11.1
Casa Vieja Meadows	8300'	20.9	8.0	38.2	8.4	9.9
Pascoes	9150'	24.9	11.5	46.2	11.7	11.8
Wet Meadows	8950'	30.3	10.2	33.7	10.8	12.2
Chagoopa Plateau	10300'	21.8	13.7	62.6	13.7	14.8
Crabtree Meadow	10700'	19.8	-	-	-	-
SURPRISE VALLEY AREA						
Dismal Swamp	7050'	29.2	19.7	67.5	19.7	19.6
TRUCKEE RIVER						
Independence Camp	7000'	21.8	13.3	61.0	13.7	14.7
Independence Lake	8450'	41.4	19.9	48.1	20.0	19.4
Squaw Valley Gold Coast	8200'	46.5	36.5	78.5	37.2	36.1
Truckee 2	6400'	14.3	12.6	88.1	12.9	14.1
Independence Creek	6500'	12.7	8.7	68.5	9.1	9.8
Big Meadows	8700'	25.7	20.6	80.2	20.7	19.7
LAKE TAHOE BASIN						
Rubicon Peak 2	7500'	29.1	12.6	43.3	12.7	14.1
Tahoe City Cross	6750'	16.0	7.3	45.6	7.7	9.9
Echo Peak 5	7800'	39.5	25.9	65.6	26.5	29.2
Hagans Meadow	8000'	16.5	9.3	56.4	9.4	10.1
Fallen Leaf Lake	6250'	7.0	2.8	40.0	3.4	4.9
Ward Creek 3	6750'	39.4	21.1	53.6	21.5	21.9
Mount Rose Ski Area	8900'	38.5	34.2	88.8	34.3	34.5
Heavenly Valley	8800'	28.1	25.8	91.8	26.1	28.3
Marlette Lake	8000'	21.1	15.0	71.1	15.2	15.4
CARSON RIVER						
Spratt Creek	6150'	4.5	0.1	2.2	0.3	3.3
Horse Meadow	8400'	48.6	45.7	94.1	46.2	47.9
Burnside Lake	8129'	-	20.8	-	21.0	22.0
Monitor Pass	8350'	-	15.2	-	15.4	15.6
Poison Flat	7900'	16.2	15.8	97.5	16.3	16.6
Forestdale Creek	8017'	-	24.6	-	25.0	27.3
Ebbetts Pass	8700'	38.8	-	-	-	-
WALKER RIVER						
Sonora Pass Bridge	8750'	26.0	-	-	-	-
Virginia Lakes Ridge	9300'	20.3	14.5	71.4	14.6	14.5
Lobdell Lake	9200'	17.3	13.7	79.2	13.8	14.2
Summit Meadow	9313'	-	16.5	-	16.5	16.8
Leavitt Meadows	7200'	8.0	5.5	68.8	5.6	6.7
Leavitt Lake	9600'	-	45.7	-	45.6	45.3
OWENS RIVER/MONO LAKE						
Cottonwood Lakes	10150'	11.6	10.8	93.1	11.0	11.6
Gem Pass	10750'	31.7	18.5	58.3	18.6	19.1
Rock Creek Lakes	9700'	14.0	6.9	49.5	7.2	7.9
South Lake	9600'	16.0	10.8	67.5	10.8	10.7
Big Pine Creek	9800'	17.9	9.6	53.6	9.7	9.7
Sawmill	10200'	19.4	11.3	58.4	11.3	11.5

NORMAL SNOWPACK ACCUMULATION EXPRESSED AS A PERCENT OF APRIL 1ST AVERAGE

AREA	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Central Valley North	45%	70%	90%	100%	75%
Central Valley South	45%	65%	85%	100%	80%
North Coast	40%	60%	85%	100%	80%



SNOWLINES

Registration is now open for the **86th annual Western Snow Conference** to be held in Albuquerque, NM April 16-19, 2018. We expect to have a full agenda of informative and interesting presentations related to snow hydrology, meteorological measurement techniques, and water resource management.

Meeting Information:

http://www.westernsnowconference.org/meetings/2018

The Conference will begin Monday, April 16th with a short course "Communicating Complex Environmental Information to Broad Audiences". Tuesday and Wednesday will include formal paper and poster presentations on a variety of topics, including climate variability, climate change impacts on snow and runoff, water management, water supply forecasting, and modeling and climatology of snow. Thursday will include a technical tour of the nearby Rio Grande Valley.

Depicted on this month's cover is a view of the East entrance station to Yosemite National Park at 9945 feet elevation taken on June 9, 2017.